

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/576,943
Source: 1 FWP
Date Processed by STIC: 5/4/06

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: 10/576,943

CRF Edit Date: 5/4/06
Edited by: [signature]

___ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

___ Corrected the SEQ ID NO. Sequence numbers edited were:

___ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

___ Deleted: / invalid beginning/end-of-file text ; / page numbers

___ Inserted mandatory headings/numeric identifiers, specifically:

___ Moved responses to same line as heading/numeric identifier, specifically:

___ Other:



IFWP

RAW SEQUENCE LISTING

DATE: 05/04/2006

PATENT APPLICATION: US/10/576,943

TIME: 13:31:27

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\05042006\J576943.raw

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4 <110> APPLICANT: Long, Li
5      Luqman, Mohammad
6      Yabannavar, Asha
7      Zaror, Isabel
9 <120> TITLE OF INVENTION: USE OF ANTAGONISTIC ANTI-CD40 ANTIBODIES
10     FOR TREATMENT OF AUTOIMMUNE AND INFLAMMATORY DISEASE
11     AND ORGAN TRANSPLANT REJECTION
13 <130> FILE REFERENCE: PP23725.001 (284072)
C--> 15 <140> CURRENT APPLICATION NUMBER: US/10/576,943
C--> 15 <141> CURRENT FILING DATE: 2006-04-21
15 <150> PRIOR APPLICATION NUMBER: 60/565,710
16 <151> PRIOR FILING DATE: 2004-04-27
18 <150> PRIOR APPLICATION NUMBER: 60/525,579
19 <151> PRIOR FILING DATE: 2003-11-26
21 <150> PRIOR APPLICATION NUMBER: 60/517,337
22 <151> PRIOR FILING DATE: 2003-11-04
24 <160> NUMBER OF SEQ ID NOS: 12
26 <170> SOFTWARE: FastSEQ for Windows Version 4.0
28 <210> SEQ ID NO: 1
29 <211> LENGTH: 720
30 <212> TYPE: DNA
31 <213> ORGANISM: Artificial Sequence
33 <220> FEATURE:
34 <223> OTHER INFORMATION: Coding sequence for light chain of CHIR-12.12
35     human anti-CD40 antibody
W--> 37 <221> NAME/KEY: CDS
38 <222> LOCATION: (1)...(720)
W--> 40 <400> 1
41 atg gcg ctc cct gct cag ctc ctg ggg ctg cta atg ctc tgg gtc tct 48
42 Met Ala Leu Pro Ala Gln Leu Leu Gly Leu Leu Met Leu Trp Val Ser
43 1 5 10 15
45 gga tcc agt ggg gat att gtg atg act cag tct cca ctc tcc ctg acc 96
46 Gly Ser Ser Gly Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Thr
47 20 25 30
49 gtc acc cct gga gag ccg gcc tcc atc tcc tgc agg tcc agt cag agc 144
50 Val Thr Pro Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser
51 35 40 45
53 ctc ctg tat agt aat gga tac aac tat ttg gat tgg tac ctg cag aag 192
54 Leu Leu Tyr Ser Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys
55 50 55 60
57 cca ggg cag tct cca cag gtc ctg atc tct ttg ggt tct aat cgg gcc 240
58 Pro Gly Gln Ser Pro Gln Val Leu Ile Ser Leu Gly Ser Asn Arg Ala
59 65 70 75 80

```

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61 tcc ggg gtc cct gac agg ttc agt ggc agt gga tca ggc aca gat ttt 288
62 Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe
63      85      90      95
65 aca ctg aaa atc agc aga gtg gag gct gag gat gtt ggg gtt tat tac 336
66 Thr Leu Lys Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr
67      100      105      110
69 tgc atg caa gct cga caa act cca ttc act ttc ggc cct ggg acc aaa 384
70 Cys Met Gln Ala Arg Gln Thr Pro Phe Thr Phe Gly Pro Gly Thr Lys
71      115      120      125
73 gtg gat atc aga cga act gtg gct gca cca tct gtc ttc atc ttc ccg 432
74 Val Asp Ile Arg Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro
75      130      135      140
77 cca tct gat gag cag ttg aaa tct gga act gcc tct gtt gtg tgc ctg 480
78 Pro Ser Asp Glu Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu
79 145      150      155      160
81 ctg aat aac ttc tat ccc aga gag gcc aaa gta cag tgg aag gtg gat 528
82 Leu Asn Asn Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp
83      165      170      175
85 aac gcc ctc caa tcg ggt aac tcc cag gag agt gtc aca gag cag gac 576
86 Asn Ala Leu Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp
87      180      185      190
89 agc aag gac agc acc tac agc ctc agc agc acc ctg acg ctg agc aaa 624
90 Ser Lys Asp Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys
91      195      200      205
93 gca gac tac gag aaa cac aaa gtc tac gcc tgc gaa gtc acc cat cag 672
94 Ala Asp Tyr Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln
95      210      215      220
97 ggc ctg agc tcg ccc gtc aca aag agc ttc aac agg gga gag tgt tag 720
98 Gly Leu Ser Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys *
99 225      230      235
103 <210> SEQ ID NO: 2
104 <211> LENGTH: 239
105 <212> TYPE: PRT
106 <213> ORGANISM: Artificial Sequence
108 <220> FEATURE:
109 <223> OTHER INFORMATION: Light chain of CHIR-12.12 human anti-CD40 antibody
111 <400> SEQUENCE: 2
112 Met Ala Leu Pro Ala Gln Leu Leu Gly Leu Leu Met Leu Trp Val Ser
113 1      5      10      15
114 Gly Ser Ser Gly Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Thr
115      20      25      30
116 Val Thr Pro Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser
117      35      40      45
118 Leu Leu Tyr Ser Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys
119      50      55      60
120 Pro Gly Gln Ser Pro Gln Val Leu Ile Ser Leu Gly Ser Asn Arg Ala
121 65      70      75      80
122 Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe
123      85      90      95

```

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124 Thr Leu Lys Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr
125           100           105           110
126 Cys Met Gln Ala Arg Gln Thr Pro Phe Thr Phe Gly Pro Gly Thr Lys
127           115           120           125
128 Val Asp Ile Arg Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro
129           130           135           140
130 Pro Ser Asp Glu Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu
131 145           150           155           160
132 Leu Asn Asn Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp
133           165           170           175
134 Asn Ala Leu Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp
135           180           185           190
136 Ser Lys Asp Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys
137           195           200           205
138 Ala Asp Tyr Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln
139           210           215           220
140 Gly Leu Ser Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
141 225           230           235
144 <210> SEQ ID NO: 3
145 <211> LENGTH: 2016
146 <212> TYPE: DNA
147 <213> ORGANISM: Artificial Sequence
149 <220> FEATURE:
150 <223> OTHER INFORMATION: Coding sequence for heavy chain of CHIR-12.12
151     human anti-CD40 antibody (with introns)
153 <400> SEQUENCE: 3
154 atggagtttg ggctgagctg ggttttcctt gttgctattt taagaggtgt ccagtgtcag 60
155 gtgcagttgg tggagtctgg gggaggcgtg gtccagcctg ggaggtccct gagactctcc 120
156 tgtgcagcct ctggattcac cttcagtagc tatggcatgc actgggtccg ccaggctcca 180
157 ggcaaggggc tggagtgggt ggcagttata tcatatgagg aaagtaatag ataccatgca 240
158 gactccgtga agggccgatt caccatctcc agagacaatt ccaagatcac gctgtatctg 300
159 caaatgaaca gcctcagaac tgaggacacg gctgtgtatt actgtgctgag agatgggggt 360
160 atagcagcac ctgggcctga ctactggggc cagggaaacc tggtcaccgt ctctcagca 420
161 agtaccaagg gcccatccgt cttccccctg gcgcccgtg gcaagagcac ctctgggggc 480
162 acagcggccc tgggctgcct ggtcaaggac tacttccccg aaccggtgac ggtgtcgtgg 540
163 aactcaggcg ccctgaccag cggcgtgcac accttccccg ctgtcctaca gtctcagga 600
164 ctctactccc tcagcagcgt ggtgaccgtg ccctccagca gcttgggcac ccagacctac 660
165 atctgcaacg tgaatcacia gccagcaac accaaggtgg acaagagagt tggtagagg 720
166 ccagcacagg gagggagggt gtctgctgga agccaggctc agcgctcctg cctggacgca 780
167 tcccggctat gcagtcctag tccagggcag caaggcaggc cccgtctgcc tcttcaccgc 840
168 gaggcctctg cccgccccac tcatgctcag ggagagggtc ttctggcttt tccccaggc 900
169 tctgggcagg cacaggctag gtgcccctaa cccaggccct gcacacaaag gggcaggtgc 960
170 tgggctcaga cctgccaaga gccatatccg ggaggaccct gccctgacc taagcccacc 1020
171 ccaaaggcca aactctccac tccctcagct cggacacctt ctctcctccc agattccagt 1080
172 aactcccaat cttctctctg cagagcccaa atcttgtgac aaaactcaca catgccacc 1140
173 gtgcccaggt aagccagccc aggcctcgcc ctccagctca aggcgggaca ggtgccctag 1200
174 agtagcctgc atccaggac aggcctcagc cgggtgctga cacgtccacc tccatctctt 1260
175 cctcagcacc tgaactcctg gggggaccgt cagtcttctt cttcccccca aaaccaagg 1320
176 acaccctcat gatctcccgg acccctgagg tcacatgcgt ggtggtggac gtgagccacg 1380

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DATE: 05/04/2006

TIME: 13:31:27

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\05042006\J576943.raw

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177 aagaccctga ggtcaagttc aactggtacg tggacggcgt ggaggtgcat aatgccaaga 1440
178 caaagccgcg ggaggagcag tacaacagca cgtaccgtgt ggtcagcgtc ctcaccgtcc 1500
179 tgcaccagga ctggctgaat ggcaaggagt acaagtgcaa ggtctccaac aaagccctcc 1560
180 cagcccccat cgagaaaacc atctccaaag ccaaagggtg gacccgtggg gtgcgagggc 1620
181 cacatggaca gaggccggct cggcccaccc tctgccctga gagtgaccgc tgtaccaacc 1680
182 tctgtcccta cagggcagcc ccgagaacca caggtgtaca ccctgcccc atcccgggag 1740
183 gagatgacca agaaccaggt cagcctgacc tgcctggtca aaggcttcta tcccagcgac 1800
184 atcgccgtgg agtgggagag caatgggcag ccggagaaca actacaagac cagcctccc 1860
185 gtgctggact ccgacggctc cttcttcctc tatagcaagc tcaccgtgga caagagcagg 1920
186 tggcagcagg ggaacgtctt ctcatgctcc gtgatgcatg aggctctgca caaccactac 1980
187 acgcagaaga gcctctccct gtctccgggt aatatga 2016
189 <210> SEQ ID NO: 4
190 <211> LENGTH: 469
191 <212> TYPE: PRT
192 <213> ORGANISM: Artificial Sequence
194 <220> FEATURE:
195 <223> OTHER INFORMATION: Heavy chain of CHIR-12.12 human anti-CD40 antibody
197 <400> SEQUENCE: 4
198 Met Glu Phe Gly Leu Ser Trp Val Phe Leu Val Ala Ile Leu Arg Gly
199 1 5 10 15
200 Val Gln Cys Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln
201 20 25 30
202 Pro Gly Arg Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
203 35 40 45
204 Ser Ser Tyr Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
205 50 55 60
206 Glu Trp Val Ala Val Ile Ser Tyr Glu Glu Ser Asn Arg Tyr His Ala
207 65 70 75 80
208 Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Ile
209 85 90 95
210 Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Thr Glu Asp Thr Ala Val
211 100 105 110
212 Tyr Tyr Cys Ala Arg Asp Gly Gly Ile Ala Ala Pro Gly Pro Asp Tyr
213 115 120 125
214 Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly
215 130 135 140
216 Pro Ser Val Phe Pro Leu Ala Pro Ala Ser Lys Ser Thr Ser Gly Gly
217 145 150 155 160
218 Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val
219 165 170 175
220 Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe
221 180 185 190
222 Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val
223 195 200 205
224 Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val
225 210 215 220
226 Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Arg Val Glu Pro Lys
227 225 230 235 240
228 Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu

```

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Output Set : N:\CRF4\05042006\J576943.raw

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229          245          250          255
230 Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr
231          260          265          270
232 Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val
233          275          280          285
234 Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val
235          290          295          300
236 Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser
237 305          310          315          320
238 Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu
239          325          330          335
240 Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala
241          340          345          350
242 Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro
243          355          360          365
244 Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln
245          370          375          380
246 Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala
247 385          390          395          400
248 Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr
249          405          410          415
250 Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu
251          420          425          430
252 Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser
253          435          440          445
254 Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser
255          450          455          460
256 Leu Ser Pro Gly Lys
257 465
260 <210> SEQ ID NO: 5
261 <211> LENGTH: 469
262 <212> TYPE: PRT
263 <213> ORGANISM: Artificial Sequence
265 <220> FEATURE:
266 <223> OTHER INFORMATION: Heavy chain of variant of CHIR-12.12 human
267      anti-CD40 antibody
269 <400> SEQUENCE: 5
270 Met Glu Phe Gly Leu Ser Trp Val Phe Leu Val Ala Ile Leu Arg Gly
271 1      5      10      15
272 Val Gln Cys Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln
273      20      25      30
274 Pro Gly Arg Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
275      35      40      45
276 Ser Ser Tyr Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
277      50      55      60
278 Glu Trp Val Ala Val Ile Ser Tyr Glu Glu Ser Asn Arg Tyr His Ala
279 65      70      75      80
280 Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Ile
281      85      90      95

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/576,943

DATE: 05/04/2006

TIME: 13:31:28

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\05042006\J576943.raw

L:15 M:270 C: Current Application Number differs, Replaced Current Application No
L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:37 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:40 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:529 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:9
L:630 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:11

**Raw Sequence Listing before editing
(for reference only)**



IFWP

RAW SEQUENCE LISTING

DATE: 05/03/2006

PATENT APPLICATION: US/10/576,943

TIME: 11:20:22

Input Set : A:\seq1st.txt

Output Set: N:\CRF4\05032006\J576943.raw

4 <110> APPLICANT: Long, Li
 5 Luqman, Mohammad
 6 Yabannavar, Asha
 7 Zaror, Isabel
 9 <120> TITLE OF INVENTION: USE OF ANTAGONISTIC ANTI-CD40 ANTIBODIES
 10 FOR TREATMENT OF AUTOIMMUNE AND INFLAMMATORY DISEASE
 11 AND ORGAN TRANSPLANT REJECTION
 13 <130> FILE REFERENCE: PP23725.001 (284072)
 C--> 15 <140> CURRENT APPLICATION NUMBER: US/10/576,943
 C--> 15 <141> CURRENT FILING DATE: 2006-04-21
 15 <150> PRIOR APPLICATION NUMBER: 60/565,710
 16 <151> PRIOR FILING DATE: 2004-04-27
 18 <150> PRIOR APPLICATION NUMBER: 60/525,579
 19 <151> PRIOR FILING DATE: 2003-11-26
 21 <150> PRIOR APPLICATION NUMBER: 60/517,337
 22 <151> PRIOR FILING DATE: 2003-11-04
 24 <160> NUMBER OF SEQ ID NOS: 12
 26 <170> SOFTWARE: FastSEQ for Windows Version 4.0

**Does Not Comply
Corrected Diskette Needed**

ERRORED SEQUENCES

704 <210> SEQ ID NO: 12
 705 <211> LENGTH: 277
 706 <212> TYPE: PRT
 707 <213> ORGANISM: Homo sapiens
 709 <400> SEQUENCE: 12
 710 Met Val Arg Leu Pro Leu Gln Cys Val Leu Trp Gly Cys Leu Leu Thr
 711 1 5 10 15
 712 Ala Val His Pro Glu Pro Pro Thr Ala Cys Arg Glu Lys Gln Tyr Leu
 713 20 25 30
 714 Ile Asn Ser Gln Cys Cys Ser Leu Cys Gln Pro Gly Gln Lys Leu Val
 715 35 40 45
 716 Ser Asp Cys Thr Glu Phe Thr Glu Thr Glu Cys Leu Pro Cys Gly Glu
 717 50 55 60
 718 Ser Glu Phe Leu Asp Thr Trp Asn Arg Glu Thr His Cys His Gln His
 719 65 70 75 80
 720 Lys Tyr Cys Asp Pro Asn Leu Gly Leu Arg Val Gln Gln Lys Gly Thr
 721 85 90 95
 722 Ser Glu Thr Asp Thr Ile Cys Thr Cys Glu Glu Gly Trp His Cys Thr
 723 100 105 110
 724 Ser Glu Ala Cys Glu Ser Cys Val Leu His Arg Ser Cys Ser Pro Gly
 725 115 120 125

RAW SEQUENCE LISTING

DATE: 05/03/2006

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TIME: 11:20:22

Input Set : A:\seq1st.txt

Output Set: N:\CRF4\05032006\J576943.raw

726 Phe Gly Val Lys Gln Ile Ala Thr Gly Val Ser Asp Thr Ile Cys Glu
727 130 135 140
728 Pro Cys Pro Val Gly Phe Phe Ser Asn Val Ser Ser Ala Phe Glu Lys
729 145 150 155 160
730 Cys His Pro Trp Thr Ser Cys Glu Thr Lys Asp Leu Val Val Gln Gln
731 165 170 175
732 Ala Gly Thr Asn Lys Thr Asp Val Val Cys Gly Pro Gln Asp Arg Leu
733 180 185 190
734 Arg Ala Leu Val Val Ile Pro Ile Ile Phe Gly Ile Leu Phe Ala Ile
735 195 200 205
736 Leu Leu Val Leu Val Phe Ile Lys Lys Val Ala Lys Lys Pro Thr Asn
737 210 215 220
738 Lys Ala Pro His Pro Lys Gln Glu Pro Gln Glu Ile Asn Phe Pro Asp
739 225 230 235 240
740 Asp Leu Pro Gly Ser Asn Thr Ala Ala Pro Val Gln Glu Thr Leu His
741 245 250 255
742 Gly Cys Gln Pro Val Thr Gln Glu Asp Gly Lys Glu Ser Arg Ile Ser
743 260 265 270
744 Val Gln Glu Arg Gln
745 275
E--> 747 12
753 RTA01/2168245v1

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Output Set: N:\CRF4\05032006\J576943.raw

L:15 M:270 C: Current Application Number differs, Replaced Current Application No
L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:37 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:40 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:529 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:9
L:630 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:11
L:747 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:12